

compared by means of a deck-watch with the noon signal at the R.A.S. rooms. Approximate position of the Observatory, $51^{\circ} 20' 3'' \cdot 1$ N. and $2^m 59^s \cdot 67$ E. Aperture of O.G. $3\frac{1}{2}$ in.

Murston Rectory, Sittingbourne:
1888, October 25.

Results of Micrometer Comparisons of Jupiter and β' Scorpii in May 1888. By John Tebbutt.

This communication contains the results of filar-micrometer comparisons with the 8-inch equatorial of *Jupiter* and the well-known clock-star β' *Scorpii* about the time of their conjunction in May last. In determining the difference of right ascension both limbs were observed at each transit over the single meridian thread of the micrometer. The correction for phase is insensible. In the determination of differences of declination the comparisons on each evening were equally divided between the north and south limbs. The differentials are corrected for refraction, and the resulting places of the planet for parallax. The steadiness and definition of the images were throughout satisfactory. In the last column will be found a comparison of the several stars with the theoretical places of the *Nautical Almanac*, from p. 352 of which work the place of the comparison star has been taken.

Results of Micrometer Comparisons of Jupiter and β' Scorpii.

1888.	Windsor Mean Time.			Planet's Centre—Star.					Comps. h	Planet's Geocentric Apparent					Obs.—N.A.								
	$\Delta\alpha$			$\Delta\delta$				α					δ										
	h	m	s	m	s	'	"	m		s	'	"	s	"									
May 14	9	47	41	+3	28	99	--11	10	6	10	16	2	26	04	--19	41	4	1	+0	11	+0	9	
„ 15	9	25	57	+2	58	23	--	9	47	3	20	16	1	55	29	--19	39	40	9	+0	17	+1	4
„ 16	9	15	9	+2	26	98	--	8	24	0	20	16	1	24	05	--19	38	17	7	+0	11	+0	8
„ 17	9	35	36	+1	54	89	--	6	57	6	20	16	0	51	98	--19	36	51	2	+0	03	+1	1
„ 18	10	0	53	+1	22	64	--	5	31	0	20	16	0	19	76	--19	35	24	6	+0	02	+1	0
„ 19	9	30	23	+0	51	59	--	4	6	8	20	15	59	48	71	--19	34	0	5	+0	02	+1	2
„ 20	10	41	49	+0	18	18	--	2	36	3	20	15	59	15	35	--19	32	29	9	+0	02	+1	5
„ 21	10	22	35	--0	13	25	--	1	11	6	20	15	58	43	92	--19	31	5	2	--0	02	+1	2
„ 22	9	25	19	--0	43	86	+	0	11	2	20	15	58	13	30	--19	29	42	5	--0	09	+1	0
„ 23	9	32	29	--1	15	86	+	1	38	1	20	15	57	41	31	--19	28	15	6	--0	11	+1	0
„ 24	9	46	35	--1	48	01	+	3	5	7	20	15	57	9	18	--19	26	48	0	--0	14	+1	2
„ 25	10	14	3	--2	20	39	+	4	34	2	20	15	56	36	82	--19	25	19	5	--0	15	+1	6

Errata in my former Communications in the "Monthly Notices."

January 1888, p. 135, line 33 from top, *for ingress read egress.*

April 1888, p. 314, line 14 from top, *insert equation between the and Lenehan-White.*

May 1888, p. 340, line 4 from top, *for evening read morning.*

Windsor, N.S. Wales: 1888, August 20.

Nov. 1888. *Mr. Marth, Ephemeris for the Moon.*

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Ephemeris for Physical Observations of the Moon. By A. Marth.
1889, January 1 to April 1.

Greenwich Noon.	Selenographical		Long. of the	Lat. Earth.	Geocentric Libration.	
	Colong. of the Sun.	Lat.			Amount.	Direction.
1889. Jan. 1	262°68	+0°28	+2°06	-1°80	2°73	228°7
2	274°87	0°26	3°72	-0°05	3°77	269°2
3	287°06	0°23	5°11	+1°68	5°38	288°2
4	299°25	0°20	6°14	3°26	6°95	298°0
5	311°43	0°18	6°76	4°60	8°17	304°3
6	323°61	+0°15	+6°96	+5°64	8°95	309°2
7	335°78	0°13	6°76	6°36	9°28	313°5
8	347°94	0°10	6°21	6°75	9°16	317°6
9	0°10	0°07	5°34	6°82	8°65	322°1
10	12°25	0°04	4°27	6°58	7°84	327°2
11	24°40	+0°01	3°02	6°06	6°62	333°6
12	36°54	-0°02	1°69	5°29	5°55	342°3
13	48°68	-0°05	+0°34	+4°29	4°30	355°4
14	60°82	0°08	-0°97	3°10	3°25	17°4
15	72°95	0°12	2°20	1°77	2°82	51°2
16	85°08	0°15	3°29	+0°34	3°31	84°1
17	97°21	0°18	4°22	-1°12	4°37	104°9
18	109°34	0°21	4°95	2°56	5°56	117°2
19	121°47	0°24	5°46	3°88	6°70	125°5
20	133°60	-0°28	-5°74	-5°04	7°63	131°4
21	145°74	0°31	5°78	5°95	8°29	136°0
22	157°88	0°34	5°58	6°55	8°59	139°8
23	170°03	0°37	5°12	6°81	8°52	143°2
24	182°19	0°39	4°42	6°67	8°00	146°6
25	194°35	0°42	3°50	6°14	7°07	150°4
26	206°52	0°44	2°39	5°23	5°75	155°5
27	218°70	-0°47	-1°13	-3°97	4°13	164°1
28	230°78	0°49	+0°23	2°48	2°49	185°3
29	243°07	0°52	1°61	-0°77	1°78	244°4
30	255°26	0°54	2°91	+0°96	3°07	288°2
31	267°46	0°56	4°06	2°59	4°82	302°6
Feb. 1	279°66	0°58	4°97	4°05	6°41	309°2
2	291°85	0°61	5°58	5°23	7°63	313°2
3	304°04	-0°63	+5°83	+6°09	8°42	316°4